

Bellwork: 2/13/13

Graph the following function:

$$y = -2x^4 + 50x^2$$

$$-2x^2(x^2 - 25)$$

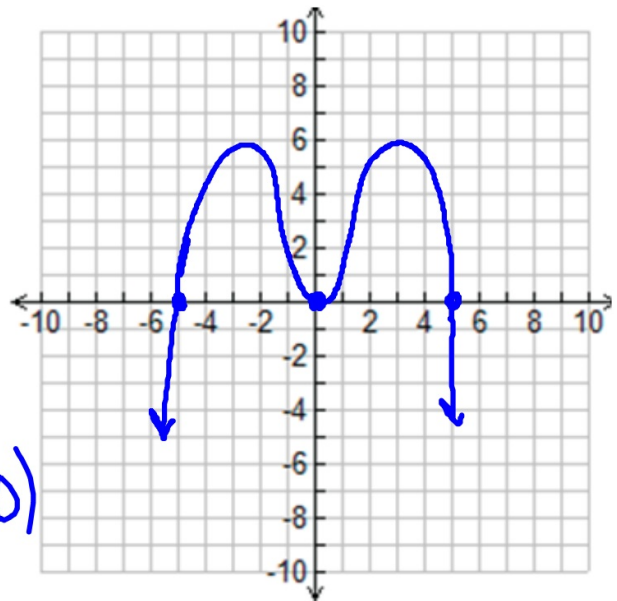
$$-2x^2(x+5)(x-5)$$

$$-2x \cdot x(x+5)(x-5)$$

roots: $(0,0)$ ^{twice} bounce $-5, 5$
 $y_{int}: (0,0)$

EB: $-2x^4$

even $\ominus \downarrow \downarrow$



③① $y = (x-4)^2$

$$(x-4)(x-4)$$

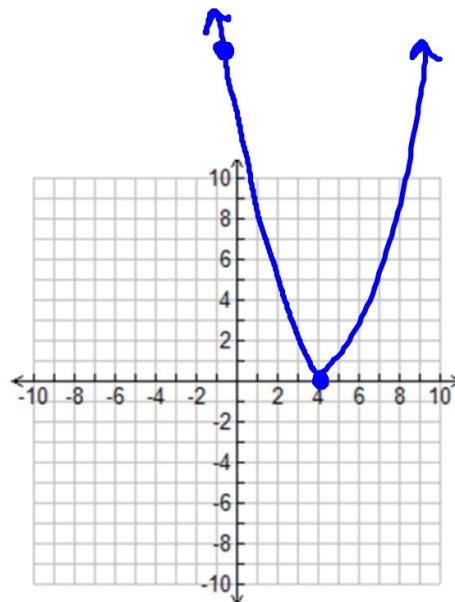
roots/ $x-4=0$ $x-4=0$

zeros: $x = 4$ ^{twice} bounce

$y_{int}: (0, 16)$

EB: x^2 even \oplus

$\uparrow \uparrow$



35) $y = 3x^3 - 3x$

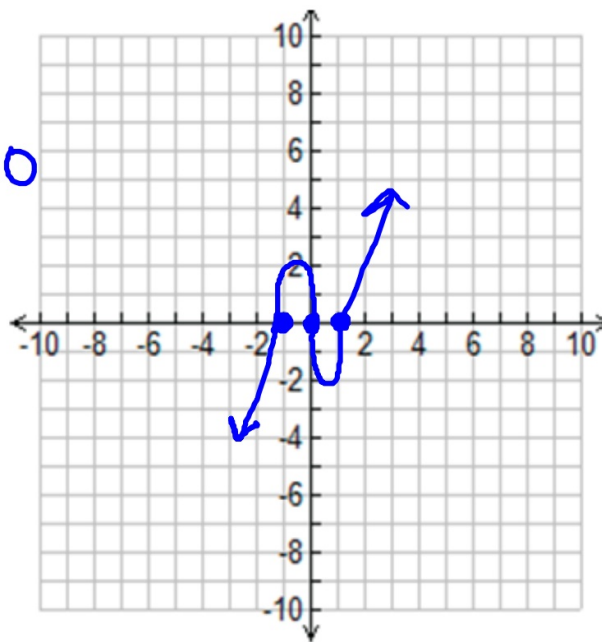
$$3x(x^2 - 1)$$

$$3x(x-1)(x+1)$$

roots: $3x=0$ $x-1=0$ $x+1=0$
 $0, 1, -1$

yint: $(0,0)$

eb: odd \oplus
 $\downarrow \uparrow$



Homework: Review 5.1-5.2

Quiz tomorrow

